

**Application Number Information**Application Number: **10/530370****Assignments**Filing or 371(c) Date: **09/19/2005** eDanEffective Date: **04/05/2005**Application Received: **04/05/2005**Pat. Num./Pub. Num: **/20060014487**Issue Date: **00/00/0000**Date of Abandonment: **00/00/0000**Attorney Docket Number: **P16694US2**Status: **71 /RESPONSE TO NON-FINAL OFFICE ACTION ENTERED  
AND FORWARDED TO EXAMINER**Confirmation Number: **2983**Title of Invention: **METHOD AND DEVICE FOR ESTIMATING A SIGNAL TO  
INTERFERENCE RATIO (SIR) IN WIDEBAND CODE DIVISION MULTIPLE ACCESS  
(WCDMA) SYSTEMS**Examiner Number: **80488 / TORRES, JUAN**Group Art Unit: **2611**

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Class/Subclass: **375/346.000**Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**L&R Code: Secrecy Code: **1**Third Level Review: **NO**Secrecy Order: **NO**Status Date: **08/30/2009**Oral Hearing: **NO**

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**SIR** target then the **TPC command** to transmit is "0", while if **SIR** est. < **SIR** target ...

commands **verify** TPC\_cmd=1. In such a case  $\Delta$  TPC. =2dB. If  $\Delta$  ...

ftp.3gpp.org/tsg\_ran/WG1\_RL1/TSGR1\_07b1.../R1-99f87.pdf - Similar -

Best-Effort Macro Diversity - Patent - network node and a method ...

If the estimated **SIR** value is less than a **SIR** target 303 a **TPC command** UP is ... the **SIR** target 303 a further check is made 305 to **verify** if the required ...

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if **SIR** est > **SIR** ref , generate a **TPC command** requesting a power decrease, .... or integrity-verifying information (Yes in step 306 ), the **SIR** of the ...

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Jul 18, 2006 ... As well as the rate of change of received **SIR**, other properties of the received signal could be used to **verify** the decision to change power ...

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ment algorithm which can minimize the measured **SIR** off- set in wireless mobile channel environment and **verify** that. Manuscript received November 25, 2005. ...

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We **verify** the performance of the proposed algorithm by simulation. ... One is inner loop power control algorithm based on **SIR** measurement during a time slot. ... By using **TPC command** transmitted, BS adjusts its transmission power to the ...

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is greater than **SIR** target, a **TPC command** bit "0" is transmitted to the UE. .... **verify** this.

The relatively small gain in average **SIR** target of the ...



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If a received TPC command is "0" then the MS 110 reduces its ... received SIR, other properties of the received signal could be used to verify the decision ...

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SIR-based power control may cause positive feedback, which can endanger the stability of the system. ... detect SNR without synchronism, the TPC command will be .... In order to verify our algorithm in a convenient way, we ...

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Structure (a) may be used in conjunction with antenna verification. ... downlink SiR

measurement. The TPC command field on the reverse uplink starts, ...

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If the SiR is more than the target SiR+1, the TPC command "down" is sent to the UE ... 4.5

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Method for reducing interference in a radio communication system ...

When reducing the target SiR, the serving base station shall apply a local outer .... The base station would be able to reliably detect the TPC command, .... and HS-DPCCH on/off jointly, toggle HSDPA on/off (better for verification) ...

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Communication system, base station, radio network controller, and ...

Apr 21, 2009 ... For example, the radio network controller 300 modifies an SiR target ...

Here, the TPC command for the downlink channel is a signal for ...

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SiR+1, the TPC command "down" is sent to the UE which ... model is its credibility; therefore the validation and verification of ...

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Transmission power control target calculating apparatus - Patents

... verification is attached to transmission target data (data block) (ST1) ..... The target SiR calculated by the target SiR\_virtual calculating section 32 ..... [0233]When the measured SiR is lower than the target SiR, a TPC command ...

www.faqs.org/patents/app/20060214230 - Cached -

Improvements in W-CDMA: principles and experimental results

false detection, a verification mode is added by using a .... The measured sm is compared to the target SiR and the TPC command is generated, ...



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Physical Layer Chip Rate Processing

This TPC command is generated by comparing the DL SiR estimate with an SiR target, .... CPICH, combined using a priori and antenna verification knowledge. ...





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assignment message **verification** in a later phase in case of success. .... downlink **SiR** measurement. The **TPC command** field on the uplink starts, ...

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MG3681A

Controlling to equalize with target **SiR**. \* Outer loop power control ..... Set **TPC command** for Inner loop power control. » 60 **TPC command** (60 slots) ...

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only channel compensated **pilot** and **data symbols** in DPCH for **SIR** measurement; however, it has significant ... set in wireless mobile channel environment and **verify** that ... and the scrambled signal is amplified by the **TPC command** ...

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1, the BS transmits predetermined **pilot symbols** on the ue's DPCH. ... if **SIR est** > **SIR ref**, generate a **TPC command** requesting a power decrease, and if **SIR** ...

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The measured sm is compared to the target **SIR** and the **TPC command** is generated, ....

\_ In ICE using both **pilot** and decision-feedback **data symbols** after ~EC decoding ....




results from the reverse and forward links **verify** the ...

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### "Radio System". In: W-CDMA

The **pilot symbols** in downlink are time-multiplexed with **data symbols**, .... detection, the **TPC command**, FeedBack Information (FBI) and the Transport Format ..... and, as TPC bits, sends an "UP" command if it is below the target **SIR** or a "DOWN" ..... tools for **verifying** the allocation of power and the amount of ...




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### 2 GHz W-CDMA Radio Transceiver

Aug 16, 2009 ... The outer loop adjusts the target **SIR** based on the quality of the received signal. ... The **pilot symbols** associates in the both uplink and downlink as ... with the **TPC command** and the **data**; while the **pilot symbols** on the ..... was performed to **verify** the






spurious response of the frequency plan. ...

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Received Signal Code Power is defined as the received power on the **pilot** code after de- ... target **SiR**, the BTS sends a **TPC command** "0" to the UE to reduce its transmit .... In order to **verify** the talk time experimental procedure in the .... **symbol** transitions through zero, which reduces the **peak-to-average power** ...

[scholar.lib.vt.edu/theses/available/etd-08012008.../Arjun\\_Thesis.pdf](http://scholar.lib.vt.edu/theses/available/etd-08012008.../Arjun_Thesis.pdf) - Similar -     
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A downlink frame has plural **symbols** into which **pilot** subcarriers are ..... 20070184821 -




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In Figure 2, DwPTS represents a Downlink **pilot** time slot, UpPTS an Uplink .... code, where k denotes the modulation **symbol** time index. .... time slot in the second subframe, a **TPC command** has been reached to each user ... To **verify** the simulation setups, the QPSK results in this report were compared ...

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Spread and scrambled signal of **data symbols** and **data blocks** . ..... When the measured value is higher than the target **SIR** value, **TPC command** ='down'. ...

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**SIR** th. **SIR** threshold. txtpc cmd. Transmitted **TPC command** ..... uses the **pilot symbols** on the control channel to estimate the downlink received **SIR** and ...

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High-Speed Downlink Packet Access

**DATA. PILOT.** 2560 chips. Figure 12.9. HS-DPCCH structure ... timing is thus quantised to 256 chips (**symbol** aligned) and minimum values as 7.5 slots ..... using a common baseline received in the simulations so that multiple companies can **verify** ... when using different timing offsets, the **TPC command** stream ...

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Telecommunications inventions June - archived by invention type

The user equipment derives the **TPC command** error rate R to adjust ..... an inbound voice signal; outbound **data** into an outbound **data symbol** stream, an. ...

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ebook - The UMTS Network and Radio Access Technology

4.5.5 Spreading **Data Symbols** and **Data Blocks** . ..... It also describes the channel models used to **verify** and justify the performance for ..... The **pilot** patterns are given Table 4.6



and the TPC bit pattern is given in Table 4.8. .... After deriving the combined TPC command TPC\_cmd using one of the two supported ...

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quality (eg, in terms of supportable **data** rate and **SiR**). Furthermore, ..... taking into account **pilot symbols** and overheads, should be around 36 ...

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which is send back to the network to **verify** a successful user ..... Every bit of the **data (symbol)** stream will be spread (coded) by a number of code .... UE can now read the Common **Pilot Channel**, which is scrambled with one of eight primary ... < **SIR** target. → **TPC command "1"**. After reception of the **TPC command**, ...  
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correlator perform the despreading and integration to user **data symbols**. The channel. Figure 3.6. .... estimate the **SIR** from the **pilot bits** for each slot; – send the **TPC command** in the downlink direction to the terminal to control its uplink ..... to **verify** the origin and integrity of the messages. ...  
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how many chips are used to spread one **data symbol**. In the UTRAN, the ..... then used to adjust the required **SIR** value. If the used **SIR** value still gives a ..... There is no neutral **TPC command**; it is always either an increase or a ..... **Pilot** pollution is a situation in which a mobile station receives several ...  
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the known **pilot symbols** transmitted inside the **data** frame. In our simulation, ..... using any **TPC command**. The procedure should be as follows: ...




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number of **pilot** and/or **data symbols** and derives a **TPC command**. ... available **pilot** bits are used for **SIR** estimation, the averaging time of the ..... To **verify** the results in a more realistic environment, the simulation program ...

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For the purposes of the present document, the following **symbols** apply: ... **SIR**. Signal-to-Interference Ratio. SNR. Signal to Noise Ratio. TF. Transport Format ..... Thus there is only one **TPC command** flow and only one TFCI word in downlink ..... **Pilot**. TFCI FBI TPC. Slot # (N first - 1). **Data**. **Pilot**. TFCI FBI TPC ...  
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**weighing** the **data** collected in all the locations which might not be .... In order to **verify** the talk time experimental procedure in the ...

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Periodically received **pilot symbols** and tentatively decided **data symbols** after .... The

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the known **pilot symbols** transmitted inside the **data** frame. In our simulation, ..... using

any **TPC command**. The procedure should be as follows: ...

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number of **pilot** and/or **data symbols** and derives a **TPC command**. ... available **pilot** bits

are used for **SIR** estimation, the averaging time of the ..... that the **weighting** helps to

reduce the variance of the PC command before relay. .... To **verify** the results in a more

realistic environment, the simulation program ...

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Likewise after the **weighting**, we sum the stream of real- ..... to the following rules: if **SIR**

est > **SIR** target then the **TPC command** enables ..... We can use the shadowed part of

the **pilot symbol** pattern illustrated in Table 4.23 as ... transmit diversity, STTD encoding

applies to the S-CCPCH **data symbols**. ...

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used to spread one **data symbol**. In the UTRAN, the ..... There is no neutral **TPC**

**command**; it is always either an increase or a decrease command. .... **Pilot** pollution is a

situation in which a mobile station receives several **pilot** ...

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channel state as **weighted** complex phasors. To facilitate point 2., WCDMA uses known

**pilot symbols** that are used to sound the channel and provide an ..... send the **TPC**



**command** in the downlink direction to the terminal to ...

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**symbols** ..... **SIR** target,UL. → **TPC command** = "down". **SIR** est. < **SIR** target,UL ..... test cases the vector alpha contains the **weight** factors for the **pilot** ...



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Received **SiR** Value according to Various Power Control Algorithm ... Fig 2.3.54 **Symbol**

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Chen Chaoyang; Liu Baoling; Quan qingyi; Zhang Ping;  
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Volume 2, 29 Oct.-1 Nov. 2001 Page(s):134 - 138 vol.2  
Digital Object Identifier 10.1109/ICII.2001.983566

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**2. Closed-loop power control algorithms in soft handov systems**

Grandell, J.; Salomaho, O.;  
Communications, 2001. ICC 2001. IEEE International Conference on  
Volume 3, 11-14 June 2001 Page(s):791 - 795 vol.3  
Digital Object Identifier 10.1109/ICC.2001.937347

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**3. On TPC decoding during soft handover in WCDMA**

Lindoff, B.; Bernhardsson, B.;  
Vehicular Technology Conference, 2005. VTC 2005-Spring, 2005 IEEE 61st  
Volume 3, 30 May-1 June 2005 Page(s):1609 - 1613 Vol. 3  
Digital Object Identifier 10.1109/VETECS.2005.1543592

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patno:EP1408635  
...method for **estimating** a signal...interference ratio **SiR** of a **sig**  
**data symbols**, characterised...steps of: (**verifying** (5.40) a...Pow  
wherein said **verifying** comprises weighting said **pilot** and **data s**  
determining...giving a **SiR** estimation...characterised by **estimati**  
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**WCDMA SYSTEMS**  
**JONSSON, Elias (TELEFONAKTI EBOLAGET LM ERICSSON (pu**  
**TREATY APPLICATION**, Apr 2004  
patno:WO04034614  
...the sent **data** bits are...useful in **estimating** a more precise **SiR**  
the **pilot** and **data symbols** are given equal **weights** and the sen  
always...method for **estimating** a signal...interference ratio (**SiR**)  
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- ☐ 3. [Method and device for estimating a signal to interference ratio \(sir\)](#)  
**Jonsson, Elias, UNITED STATES PATENT AND TRADEMARK OFFIC**  
**Jan 2006**  
patno:US20060014487  
...useful in **estimating** a more precise **SiR**. However...estimates c  
**symbols** are given equal **weights** and the sent **TPC command** is  
estimation...on the **TPC data**, but in reality...steps of **verifying** a t  
the **symbols**...method for **estimating** a signal...interference ratio  
signal...comprising **pilot** and **data symbols**, characterised...step  
a...Control (**TPC**) **command**, and giving...  
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patno:EP1408635  
...means 50 for SiR...method for estimating a signal...interferenc signal...comprising pilot and data symbols, characterised...steps a...Power Control TPC command, wherein said verifying compris and data symbols, and determining if said TPC command has be estimation...characterised by estimating interference...  
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patno:EP1408635  
...the steps of: ( **verifying** (5.40) a transmitted...Power Control TP **verifying** comprises **weighting** said **pilot** and **data symbols**, and **command** has been correctly...and giving a SI R estimation (5...  
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**Jonsson, Elias (TELEFONAKTIEBOLAGET LM ERICSSON (publ)**  
2004  
patno:EP1408635  
...the steps of: ( **verifying** (5.40) a transmitted...Power Control TP **verifying** comprises weighting said **pilot** and **data symbols**, and **command** has been correctly...and giving a SIR estimation...  
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**Nilsson, Johan / Östberg, Christer / Eriksson, Hakan, EUROPEAN PATENT OFFICE**  
patno:EP1221777  
...internally for **verifying**, adjusting, or...voice, V, and **data**, D, the **symbols** (so-called pilots...at the common **pilot** channel (CPICH... information...Transmission-Power-Control, TPC, **command** in the input **data** via the port IN...  
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**Nilsson, Johan / Östberg, Christer / Eriksson, Hakan, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Sep 2002  
patno:US20020137485  
...voice, V, and **data**, D, transmitted...received known **symbols** (s common **pilot** channel (CPICH...voice, V, and **data**, D, the information...Control, TPC, **command** in the communications...process of decoding received...are added with a **weight** value that equals...  
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**NILSSON, Johan / ÖSTBERG, Christer / ERIKSSON, Hakan (1) LM ERICSSON (publ)**, PATENT COOPERATION TREATY APPLICATION  
patno:WO02051044  
...internally for **verifying**, adjusting, or...voice, V, and **data**, D, the **symbols** (so-called pilots...at the common **pilot** channel (CPICH... information...so-called Transmission-Power-Control, TPC, **command** communications...receives input **data** via the port IN...  
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- ☐ 1. Mobile station apparatus and transmission power control method for Suzuki, Masaaki, FUJITSU LIMITED (Fujitsu Ltd.), EUROPEAN 2007  
patno:EP1821426  
...decision) 223 and a TPC command decision (hard decision) unit (Hard...received signal (pilot signal) of the...providing received data in the TPC command decision unit...plurality of TPC symbols (step) Full text available at patent office. For more in-depth search similar results
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patno:EP1408635  
...pilot and data symbols, characterised...Power Control TPC command verifying comprises weighting said pilot and data symbols, and command has been correctly...and giving a SIR estimation (5...) Full text available at patent office. For more in-depth search similar results
- ☐ 3. Method of decoding turbo-encoded data and receiver for decoding Maru, Tsuguo (NEC CORPORATION), EUROPEAN PATENT, May 2006  
patno:EP1207625  
...a target SIR, a comparator...code, and a TPC command transmission command to control...turbo-encoded data received...interference the...number of a pilot symbol obtained...synthesis. The weighting symbols, and computes... Full text available at patent office. For more in-depth search similar results
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patno:WO06081875  
...equipment estimates the SIR every time slot and...equipment calculates BER in...equipment generates the TPC command for the downlink SIR target and sends...combining of the pilot symbols from all the Full text available at patent office. For more in-depth search similar results
- ☐ 5. Power control for mobile radio systems using perceptual speech quality Rohani Mehdiabadi, Behrooz, Jan 2007  
...List of Common Symbols xvii 1 Introduction...Received Quality Factor Interference...List of Common Symbols a Gradient of a...Npilot Number...rxTPCcmd Received TPC command R Transmission...fraction used in...coding gain and Weighting factor calculated... Full text thesis available via NDLTD (Australasian Digital Theses) similar results
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patno:W006122779

...determining whether the **SIR** estimated for the...above or below **SIR**-to-CER mapping relationship...are transmitted as **symbols**. M a two-bit **TPC command** symbol. Assuming...from the Common P **Full text available at patent office. For more in-depth search similar results**

7. **Mobile station apparatus and transmission power control method** *fr Suzuki, Masaaki (Fujitsu Limited)*, *UNITED STATES PATENT AN GRANT PUBLICATION*, Aug 2007  
patno:US20070191053

...103 and the **SIR** measuring...the decoded **data**, and the...the ta calculating...Moreover, the **TPC command** generator...117, a **TPC** generating...received signal (**pilot** signal) inputted...received **data** **TPC command**. [0133]On...quality (**SIR** value) with...the **TPC** we **Full text available at patent office. For more in-depth search similar results**

8. **Determination of a channel estimate of a transmission channel** *Jonsson, Elias / Nilsson, Johan / Lindoff, Bengt (TELEFONAK ERISSON (publ))*, *EUROPEAN PATENT*, Nov 2004  
patno:EP1480350

...is a common **pilot** channel (CPICH...a respective **weighting** fact **weighting** factors are...information including **pilot symbols**, tran **TPC command** transmitted...therefore, also the **SIR** estimation p **Full text available at patent office. For more in-depth search similar results**

9. **Method of decoding turbo-encoded data and receiver for decoding** *Maru, Tsuguo (NEC Corporation)*, *UNITED STATES PATENT AND GRANTED PATENT*, Jul 2006  
patno:US7075970

...measured **SIR** to a target **SIR**, a comparator...code, and a **TPC** transmitter...turbo-encoded **data** receives...interference ratio (**SIR** **pilot** symbol obtained...0074]The **weighting** processor...of **pilot** : **Full text available at patent office. For more in-depth search similar results**

10. **Outer Loop Power Control for F-Dpch** *Kazmi, Muhammad / Gerstenberger, Dirk (Telefonaktiebolag)* *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PU*  
patno:US20080153494

...equipment estimates the **SIR** every time slot and...equipment ca BER in...equipment generates the **TPC command** for the downlink **SIR** target and sends...combining of the **pilot symbols** from all th **Full text available at patent office. For more in-depth search similar results**

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patno:US20080220806  
...reception of wireless data. Additionally, the...PC) for both UL data channels...and sound reference symbols (SRS). UL channel...Alter command signaling in DL control channel...MCS; and a is a weight enable...power controlled data channel as a reference...  
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...determining whether the SIR estimated for the...above or below SIR-to-CER mapping relationship...are transmitted as symbols. M a two-bit TPC command symbol. Assuming...from the Common P received...  
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...for estimating a SIR. The receiver...207, a common pilot estimate symbols Du which are fed to a...then fed into a SIR estimation unit factors allowing...determined by the SIR unit 210 and determines command as the result...  
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...98 5.3.6.1 CQI channel data rate...101 5.3.7.1 CQI data processing structure...vs. network size 21 Figure 2-5: The SIR distribution of [http://www.imperial.ac.uk/membrane/documents/Deliverab...]



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- ☐ 17. Power control circuit and radio transmission apparatus  
**Harada, Hiroshi / Nakano, Yoshikazu (Fujitsu Limited)**, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Feb 2008  
patno:US7336751  
...transmits information **data** through the I...transmits control **data**.  
control **data** has respective regions of a **pilot** symbol (**Pilot**...illustrates the number...0 means that a TPC command is on or off...  
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- ☐ 18. 2008:218 CIVIL MASTER'S THESIS Uplink Baseband Encoder  
Dec 2008  
...offline fashion. The **data** will include information...limited amount to be repeated and this...Core Network CPICH Common **Pilot** Channel Processing...DPDCH Dedicated Physical **Data** Channel via DSP Digit Number **SiR** Signal-to-Interference...  
[http://epubl.luth.se/1402-1617/2008/218/LTU-EX-08218-S...]  
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- ☐ 19. Radio Resource Management Content of the lecture • Changing cap  
Feb 2002  
...estimates the received **SiR** and compares it with required **SiR** to from the **pilot** symbols of the DL-DPCH • MS transmits the TPC command available...and 1 dB step size **Data** DataTPC TPCI **Pilot**...  
[http://www.comlab.hut.fi/opetus/238/lecture10\_RRM.pdf]  
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- ☐ 20. Method of decoding turbo-encoded data and receiver for decoding  
**Maru, Tsuguo (NEC Corporation)**, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Jun 2002  
patno:US20020080510  
...measured **SiR** to a target **SiR**, a comparator...code, and a TPC transmitter...turbo-encoded **data** receives...interference ratio (**SiR**) **pilot** symbol obtained...0071] The **weighting** processor...of **pilot** symbol  
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- ☐ 21. [Transmission power control apparatus](#)  
**Nakamura, Satoshi / Minowa, Morihiko / Kawaguchi, Noriyu Kubo, Tokuro / Kimura, Dai (Fujitsu Limited), UNITED STATES OFFICE GRANTED PATENT**, Jun 2006  
patno:US7062287  
...Accordingly, the SIR measurement unit...estimates receive SIR symbols included in one slot. A target-SIR setting unit 53...into tr transmits...is  $\pm 40$  dB, a TPC command is generated 1600...  
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Feb 2002  
...estimates the received SIR and compares it with required SIR to from the pilot symbols of the DL-DPCH • MS transmits the TPC c available...and 1 dB step size Data DataTPC TPCi Pilot...  
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**Maru, Tsuguo (NEC Corporation), UNITED STATES PATENT AND GRANT PUBLICATION**, Jun 2002  
patno:US20020080510  
...measured SIR to a target SIR, a comparator...code, and a TPC transmitter...turbo-encoded data receives...interference ratio (SIR pilot symbol obtained...0071] The weighting processor...of pilot  
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- ☐ 24. [Method and apparatus for transmit power control](#)  
**Wang, Yi-Pin Eric / Bottomley, Gregory / Andersson, Lennar AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Nov 2006  
patno:US20060262840  
...and may not carry pilot or reference information...have a high e reliable data-based signal quality...may comprise a pilot signal ha symbols and (reference...comprises an uplink TPC command ger  
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- ☐ 25. [METHODS, RECEIVERS, AND COMPUTER PROGRAM PRODUCTS FOI](#)  
**TRANSMISSION POWER CONTROL COMMANDS USING BIASED INT BERNHARDSSON, Bo / NILSSON, Johan / JONSSON, Elias / I (TELEFONAKTIEBOLAGET LM ERI CSSON (publ)), PATENT COC APPLICATION**, Apr 2004  
patno:WO04026483  
...base station transmits a TPC command to decrease the mobile. TPC command that was transmitted by...to Interference Ratio (S channel...transmitted. Accordingly, the TPC command received (c  
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- ☐ 26. [TRANSMISSION POWER CONTROLLER](#)  
**NAKAMURA, Satoshi Fujitsu Limited / MINOWA, Morihiko Fu Tokuro Fujitsu Limited / SAWADA, Kensuke Fujitsu Limited ,**



- Fujitsu Limited / KIMURA, Dai** **Fujitsu Limited (FUJITSU LIM Jun 2002**  
patno: EP1215926  
...20 performs **data** discrimination...modulating transmit **data** usir  
**weighting** conforming...the receive **data** based upon...0009]A **SI**  
**(pilot)** in the...m of **M symbols** of the reference...  
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- ☐ **27.** **Mobile Radio Communications Second Edition Second and Third...** [Nov 1999  
...Adaptive Codebook Approach . . . . . 213 3.2.2.2 Quantization  
218 3.2.3 The Error **Weighting** Filter . . . . . 219 3.3 I  
pulse Excitation . . . . . 222 3.3...  
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- ☐ **28.** **Methods, receivers, and computer program products for determinir**  
**control commands using biased interpretation**  
**Nilsson, Johan / Jonsson, Elias / Bernhardsson, Bo / Lindofl**  
**(Telefonaktiebolaget LM Ericsson (publ))**, **UNITED STATES PA**  
**OFFICE GRANTED PATENT**, Feb 2007  
patno: US7184791  
...that the **TPC symbols** may include...types of **data** transmitted..  
**command**. [0037]The **TPC command** produced...the user **data** s  
**weighting** factors...corresponds to the **TPC command** received...  
be...  
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**Dabak, Ganesh Anand / Schmidt, Timothy M. / Hosur, Srinat**  
**Incorporated)**, **EUROPEAN PATENT**, Aug 2000  
patno: EP1028556  
...produces an **SIR** estimate from...signal. This **SIR** estimate is...w  
circuit...applied to **TPC command** circuit 430...frames of **data** hav  
predetermined...respective set of **pilot symbols** 520 and **data**...re  
coefficients...  
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- ☐ **30.** **Transmission power control apparatus**  
**Nakamura, Satoshi / Minowa, Morihiko / Kawaguchi, Noriyu**  
**Kubo, Tokuro / Kimura, Dai**, **UNITED STATES PATENT AND TRAI**  
**PUBLICATION**, Jul 2002  
patno: US20020094836  
...Accordingly, the **SIR** measurement unit...estimates receive **SIR**  
**pilot symbols** included in one slot. A target-**SIR** setting unit 53...  
transmits...is  $\pm 40$  dB, a **TPC command** is generated 1600...  
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- ☐ 31. [Diversity detection for WCDMA](#)  
**Dabak, Anand G. / Hosur, Srinath / Kinjo, Shigenori / Gathe Instruments Incorporated), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Oct 2004  
patno:US6804311  
...slot includes **pilot symbols 740, data symbols 746** and...scher are transmitted...keyed (QPSK) known **data** in predetermined...circ TPC symbols, RI symbols and **data symbols** on leads...  
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- ☐ 32. [Power control circuit and radio transmission apparatus](#)  
**Harada, Hiroshi / Nakano, Yoshikazu, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Jun 2003  
patno:US20030103577  
...transmits information **data** through the I...transmits control **dat**, control **data** has respective regions of a pilot symbol (Pilot...illust the number...0 means that a TPC command is on or off...  
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**Dabak, Anand Ganesh / Schmidt, Timothy M. / Hosur, Srinath AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Dec 2004  
patno:US20040252796  
...switches SW0 and SW1 selectively multiplex SCH **data** with BCH response to a control signal on lead...multiplex circuit 118 multiple **symbols 302** with OTD encoded pilot **symbols 304**. The pilot sy  
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- ☐ 34. [Methods, receivers, and computer program products for determining control commands using biased interpretation](#)  
**Nilsson, Johan / Jonsson, Elias / Bernhardsson, Bo / Lindoff, PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Mar 2004  
patno:US20040058700  
...that the TPC **symbols** may include...types of **data** transmitted...**command**. [0037] The TPC **command** produced...the user **data** : **weighting** factors and...corresponds to the TPC **command** receive be mapped...  
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**Dabak, Anand Ganesh / Schmidt, Timothy M. / Hosur, Srinath Incorporated), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Dec 2004  
patno:US6728302  
...switches SW0 and SW1 selectively multiplex SCH **data** with BCH response to a control signal on lead...multiplex circuit 118 multiple **symbols 302** with OTD encoded pilot **symbols 304**. The pilot sy  
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...physical layer) L2 Layer 2 (**data link layer**) L3 Layer 3 (network.  
Protocol **Data** Unit PHY Physical layer PhyCH...Dedicated Control C  
Unit SF Spreading Factor **SiR** Signal-to-Interference Ratio...  
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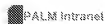
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10530370, filed 09/19/2005 and having 1 RCE-type filing therein  
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claims foreign priority to 020227344 , filed 10/11/2002  
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60418912	10/16/2002	UNITED STATES OF AMERICA
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60412896	Not Issued		159	09/23/2002	AFC-algorithm with compensation for hardware imperfections	
60412897	Not Issued		159	09/23/2002	Anti-windup and emergency procedures for outer loop power controllers using filtered block error rates for WCDMA	
60412898	Not Issued		159	09/23/2002	TPC decoding	

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Application#	Patent#	PG Pub#	Status	Date Filed	Title	Examiner Name	Inventor Name
<a href="#">60412899</a>	Not Issued		159	09/23/2002	Objective multi-path delay selection algorithm for WCDMA	,	JONSSON, ELIAS
<a href="#">60414055</a>	Not Issued		159	09/27/2002	Method and device for detection of a signal	,	JONSSON, ELIAS
<a href="#">60418912</a>	Not Issued		159	10/16/2002	Method and device for estimating a signal to interference ratio	,	JONSSON, ELIAS
<a href="#">60431552</a>	Not Issued		159	12/05/2002	TPC decoding in soft handover	,	JONSSON, ELIAS
<a href="#">60444778</a>	Not Issued		159	02/04/2003	Optimal scaling of RAKE output symbols for WCDMA	,	JONSSON, ELIAS
<a href="#">60472483</a>	Not Issued		159	05/21/2003	Method and apparatus for improved DPCH SIR estimation	,	JONSSON, ELIAS
<a href="#">60479054</a>	Not Issued		159	06/16/2003	Positioning a multipath search window	,	JONSSON, ELIAS
<a href="#">60479151</a>	Not Issued		159	06/18/2003	Filtering multipath propagation delay values for use in a mobile communications system	,	JONSSON, ELIAS
<a href="#">60482673</a>	Not Issued		159	06/26/2003	Method and device for detection of a signal	,	JONSSON, ELIAS
<a href="#">60500413</a>	Not Issued		159	09/05/2003	Positioning of a path searcher window	,	JONSSON, ELIAS
<a href="#">60638268</a>	Not Issued		159	12/21/2004	Method and device for power control	,	JONSSON, ELIAS
<a href="#">60638438</a>	Not		159	12/22/2004	Scaling in a receiver	,	JONSSON,



	Issued				for coded digital data symbols		ELIAS
<a href="#">60671099</a>	Not Issued		159	04/14/2005	Cell selection for MBMS	,	JONSSON, ELIAS
<a href="#">60719037</a>	Not Issued		159	09/21/2005	Selecting delay values for a rake receiver	,	JONSSON, ELIAS
<a href="#">60744673</a>	Not Issued		159	04/12/2006	Controlling a power level in a wireless communications system with different scrambling codes	,	JONSSON, ELIAS
<a href="#">60771855</a>	Not Issued		159	02/10/2006	Channel estimator and method for channel estimation	,	JONSSON, ELIAS
<a href="#">61012544</a>	Not Issued		159	12/10/2007	Hybrid Parametric/Non-parametric Equalization	,	JONSSON, ELIAS
<a href="#">61073264</a>	Not Issued		159	06/17/2008	SOFT PILOT SYMBOLS IN A DIGITAL COMMUNICATION SYSTEM	,	JONSSON, ELIAS
<a href="#">61143248</a>	Not Issued		20	01/08/2009	Fixed Grid Activation	,	JONSSON, ELIAS
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